

VERIFICATION REPORT CEP CARBON EMISSIONS PARTNERS S.A.

VERIFICATION OF THE

REDUCTION OF METHANE LEAKS ON THE GAS EQUIPMENT OF THE GAS DISTRIBUTION POINTS AND ON THE GAS ARMATURE, FLANGED, THREADED JOINTS OF THE GAS DISTRIBUTION PIPELINES OF PJSC "DNIPROGAZ"

FIRST PERIODIC FOR THE PERIOD OF 01/01/2008 – 31/10/2012

REPORT NO. UKRAINE-VER/0775/2012
REVISION NO. 02

BUREAU VERITAS CERTIFICATION



VERIFICATION REPORT

	Organizational unit: Bureau Veritas Certification Holding SAS
Client: CEP Carbon Emissions Partners S.A.	Client ref.: Fabian Knodel

Summary:

Bureau Veritas Certification has made the 1st periodic verification for the period of 01/01/2008-31/10/2012 of the "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" project of CEP Carbon Emissions Partners S.A. located in Dnipropetrovsk region, Ukraine, and applying JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria (but for the crediting period) refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report against project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the verification process is a list of Clarification, Corrective Actions Requests, Forward Actions Requests (CR, CAR and FAR), presented in Appendix A.

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated accurately and without material errors, omissions, or misstatements, and the ERUs issued totalize 2 606 536 tonnes of CO_2 equivalent for the monitoring period from 01/01/2008 to 31/10/2012.

Our opinion relates to the project's GHG emissions and resulting GHG emission reductions reported and related to the approved project baseline and monitoring, and its associated documents.

Report No.:	Subject Group:		
UKRAINE-ver/0775/2012	JI		
Project title:			
"Reduction of methane leal			
of the gas distribution p			
armature, flanged, thread			
distribution pipelines of PJS	C Dhiprogaz		
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1 INTRODUCTION

CEP Carbon Emissions Partners S.A. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" (hereafter called "the project") located in Dnipropetrovsk region, Ukraine.

This report summarizes the findings of the verification of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The verification covers the period from January 1, 2008 to October 31, 2012.

1.1 Objective

Verification is the periodic independent review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions during defined verification period.

The objective of verification can be divided in Initial Verification and Periodic Verification.

UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

1.2 Scope

The verification scope is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and monitoring report, and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

The verification is not meant to provide any consulting towards the Client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk

Bureau Veritas Certification Team Leader, Climate Change Lead Verifier

Volodymyr Kulish



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Bureau Veritas Certification Team Member, Climate Change Verifier This verification report was reviewed by:

Ivan Sokolov Bureau Veritas Certification Internal Technical Reviewer

Oleksandr Kuzmenko Bureau Veritas Certification Technical Specialist.

2 METHODOLOGY

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a verification protocol was customized for the project, according to the version 01 of the Joint Implementation Determination and Verification Manual, issued by the Joint Implementation Supervisory Committee at its 19 meeting on 04/12/2009. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from verifying the identified criteria. The verification protocol serves the following purposes:

- It organizes, details and clarifies the requirements a JI project is expected to meet;
- It ensures a transparent verification process where the verifier will document how a particular requirement has been verified and the result of the verification.

The completed verification protocol is enclosed in Appendix A to this report.

2.1 Review of Documents

The Monitoring Report (MR) submitted by CEP Carbon Emissions Partners S.A. and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), Approved CDM methodology, Determination Report of the project issued by Bureau Veritas Certification Holding SAS, No. UKRAINE-det/0685/2012 dated 15/10/2012, Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed.

The verification findings presented in this report relate to the Monitoring Report for the period of 01/01/2008 - 31/10/2012, version 01 dated 02/11/2012 and version 02 dated 06/11/2012, and project as described in the determined PDD.



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2.2 Follow-up Interviews

On 05/11/2012 Bureau Veritas Certification performed (on-site) interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of PJSC "Dniprogaz" and CEP Carbon Emissions Partners S.A. were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
PJSC "Dniprogaz"	 Organizational structure Responsibilities and authorities Training of personnel Quality management procedures and technologies Operation of equipment (logging) Metering equipment control Record keeping system, database
Consultant: CEP Carbon Emissions Partners S.A.	 Baseline methodology Monitoring plan Monitoring report Deviations from the PDD

2.3 Resolution of Clarification, Corrective and Forward Action Requests

The objective of this phase of the verification is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification positive conclusion on the GHG emission reduction calculation.

If the Verification Team, in assessing the monitoring report and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to the monitoring requirements, it should raise these issues and inform the project participants of these issues in the form of:

- (a) Corrective action request (CAR), requesting the project participants to correct a mistake that is not in accordance with the monitoring plan;
- (b) Clarification request (CL), requesting the project participants to provide additional information for the Verification Team to assess compliance with the monitoring plan;
- (c) Forward action request (FAR), informing the project participants of an issue, relating to the monitoring that needs to be reviewed during the next verification period.

The Verification Team will make an objective assessment as to whether the actions taken by the project participants, if any, satisfactorily resolve



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the issues raised, if any, and should conclude its findings of the verification.

To guarantee the transparency of the verification process, the concerns raised are documented in more detail in the verification protocol in Appendix A.

3 VERIFICATION CONCLUSIONS

In the following sections, the conclusions of the verification are stated.

The findings from the desk review of the original monitoring documents and the findings from interviews during the follow up visit are described in the Verification Protocol in Appendix A.

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 5 Corrective Action Requests and 4 Clarification Requests.

The number between brackets at the end of each section corresponds to the DVM paragraph.

3.1 Remaining issues and FARs from previous verifications

CAR 18 (lack of written approval from the Host Party) raised during determination process is closed upon Letter of Approval has been provided to Bureau Veritas Certification Holding SAS.

3.2 Project approval by Parties involved (90-91)

The project obtained approval by the Host party (Ukraine) - Letter of Approval No. 3258/23/7 issued by the State Environmental Investment Agency of Ukraine dated 31/10/2012, and written project approval by the party - buyer of the emission reduction units (Switzerland) - Letter of Approval No. J294-0485 issued by the Federal Office for the Environment of Switzerland (FOEN) dated 24/10/2012.

The abovementioned written approvals are unconditional.

The identified areas of concern as to the project approval by the parties involved, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 01).

3.3 Project implementation (92-93)

PJSC "Dniprogaz" is an enterprise that provides transportation and supply of liquified and natural gas in Dnipropetrovsk region. At the moment, the company supplies natural gas to industrial enterprises (361), budget-funded and public utility entities (3 540), population (399 184 apartments and individual households).



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The structure of existing tariffs for gas transportation regulated by the state does not take into account the amortization and investment needs of gas distribution enterprises. This leads to a lack of financing for repair works and modernization of gas networks, purchase of proper technological equipment and components, and, as a result, contributes to the increase of methane leaks at PJSC "Dniprogaz" facilities.

The project activities consist in the reduction of methane leaks that occur as a result of faulty sealing of GDN components of PJSC "Dniprogaz" (gas equipment of GDPs (CGDPs) and gas fittings of gas pipelines).

Within the framework of the JI project in order to repair methane leaks at gas equipment and gas fittings two types of repairs are applied:

- Complete replacement of old gas equipment and gas fittings with new units.
- 2. Replacement of sealing elements with the use of modern sealing materials, changing the common practice of maintenance and repair on the basis of paronite packing and gaskets made of cotton fibers with fatty treatment and asbestic and graphite filler.

The existing practice of maintenance and repair on the basis of paronite packing and gaskets made of cotton fibers with fatty treatment and asbestic and graphite filler does not give a long-lasting effect of methane leak reduction.

As a result of JI project activities, in addition to methane leak reductions, technical losses of natural gas decreased, a contribution was made to the improvement of environmental situation, and the risk of accidents and explosions was reduced.

According to the PDD version 02 the project boundary includes methane leak spots at gas distribution point (cabinet-type gas distribution point) gas equipment (pressure regulators, sleeves, filters etc.) and gas fittings (cranes, gate valves etc.) located at PJSC "Dniprogaz" gas distribution networks. The project boundary includes gas equipment of GDPs (CGDPs) (1676 units) and gas fittings (2974units). During the current reporting monitoring period gas equipment of 671 GDPs (CGDPs) and 1190 gas fitting units were repaired (replaced) in the framework of the project. In this monitoring period PJSC "Dniprogaz" finished repairs of all GDP (CGDP) gas equipment units and gas fittings included in the JI project boundary. The number of repaired (replaced) GDP (CGDP) gas equipment units and repaired (replaced) gas fittings of PJSC "Dniprogaz" gas distribution pipelines under the project is provided in Table 2 of this report:



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Table 2 Status of the project implementation

Period	Number of GDPs (CGDPs) where gas equipment was reparied (replaced)	Number of repaired (replaced) gas fittings at gas distribution networks
2008	335	595
2009	142	302
2010	77	106
2011	48	79
January 2012 – October 2012	69	108
TOTAL	671	1190

The number of repaired/replaced equipment slightly differs from the figure set in the determined PDD version 02, which is attributable to the short financing of the project. The lack of funding lead to the fact that some repairs planned for period 2008-2009 were performed in period 2011-2012. The list of GDPs (CGDPs) and gas fittings, which were repaired (replaced) over the repaired (replaced) over the reporting monitoring period is provided in Annex A of MR

Project activities include:

- Implementation of Purposeful Examination and Technical Maintenance (PETM) of GDN components (gas equipment of GDPs (CGDPs) and gas fittings);
- Detection of methane leaks: leak monitoring system at all GDN components (gas equipment of GDPs (CGDPs), gas fittings) that are included in the project boundary including repaired methane leaks (elements of GDN repaired as part of the project activity);
- Repair of all leaks detected: repair of leaking GDN components within the project boundary varied from replacement of sealing elements by using new and modern materials to replacement of gas equipment units and gas fittings with new and modern ones.

Project activities of the current monitoring period (January 1, 2008 – October 31, 2012) also involve Purposeful Examination and Technical Maintenance (PETM) of all GDP (CGDP) gas equipment and gas fittings that were repaired (replaced) in addition to scheduled repairs in the whole JI project life.



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According to the Monitoring Plan provided in the PDD Version 02, current repairs of gas equipment are carried out once a year, and maintenance is performed once per half-year.

Results of measurements of methane leaks at repaired (replaced) GDP (CGDP) equipment and gas fittings of PJSC "Dniprogaz" gas pipelines do not exceed the leaks that would have occurred in the absence of the project.

The project was in operation for the entire monitoring period – from 01/01/2008 to 31/10/2012.

The identified areas of concern as to the project implementation, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 02, CAR 03).

3.4 Compliance of the monitoring plan with the monitoring methodology (94-98)

The monitoring occurred in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website.

For calculating the emission reductions key factors, such as sequence number of GDN component, Global Warming Potential of methane, number of activity (replacement/repair) at GDN component after presence of APLNG was determined at such component, average mass fraction of methane in the natural gas, natural gas leak factor from GDN component in CLS, natural gas leak factor that corresponds to APLNG for GDN component, time of operation of GDN component under pressure from the beginning of monitoring period "y" to implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component, time of operation of GDN component under pressure from the moment of implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component to the end of the monitoring period "y", experience in implementing activities provided by the project, current practice that exists in this field in Ukraine, financial costs and background, legislation, influencing the baseline emissions and the activity level of the project and the emissions as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating emission reductions, such as metering equipment — Gas analyzer EX-TEC ® SR5, information provided by equipment producers, data of the enterprise, "Methodology for calculation of greenhouse gas emission reductions achieved by above-standard natural gas leak repair at the gas distribution networks" (registration number UkrNTI 0112U00A816 dated 2012) and IPCC are clearly identified, reliable and transparent.



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Emission factors, including default emission factors, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

The calculation of emission reductions is based on conservative assumptions and the most plausible scenarios in a transparent manner.

The monitoring periods per component of the project are clearly specified in the monitoring report and do not overlap with those for which verifications were already deemed final in the past.

The identified areas of concern as to the compliance of the monitoring plan with the monitoring methodology, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 04, CL 01, CL 02).

3.5 Revision of monitoring plan (99-100)

Not applicable.

3.6 Data management (101)

The data and their sources, provided in the monitoring report, are clearly identified, reliable and transparent.

The implementation of data collection procedures is in accordance with the monitoring plan provided in the PDD, including the quality control and quality assurance procedures.

The function of the monitoring equipment, including its calibration status, is in order.

According to the current Law "On metrology and metrological activity", all metering equipment in Ukraine shall meet the specified requirements of relevant standards and is subject to periodic verification. Calibration of metering equipment is carried out in accordance with the national standards.

Equipment that requires calibration and is used in the monitoring of methane leaks:

• Gas analyzer EX-TEC ® SR5. Intercalibration period is 1 year.

As a result of verification (calibration) a certificate confirming the technical serviceability of an equipment unit is issued.

The evidence and records used for the monitoring are maintained in a traceable manner.

Coordination of activities of all departments and services of PJSC "Dniprogaz" relating to the JI project implementation is done by the Working Team created pursuant to Decree No.421 dated 10/09/2012. The structure of the Working Team is shown in Figure 1.



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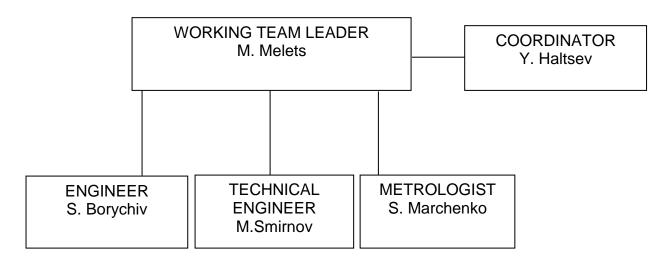


Figure 1 Structure of the Working Team

- M. Melets Working Team Leader draws up the plan of JI project activities and the amount of resources required based on the obtained information;
- S. Borychiv Working Team Engineer is responsible for organization of monitoring measurements and repair of leaks;
- M.Smirnov Working Team Technical Engineer is responsible for collection of all information and conduction of all necessary calculations under the monitoring plan;
- Y. Haltsev Working Team Coordinator is responsible for storage, archiving and making a back-up copy of project information.
- S. Marchenko Working Team Metrologist shall ensure the availability of calibrated metering devices and their maintenance.

All necessary data concerning GHG emission reduction monitoring is archived in paper and/or electronic form and kept till the end of the crediting period and for two years after the latest transaction with emission reduction units.

The Monitoring Report version 02 provides sufficient information on duties assigned, responsibility and authorities concerning implementation and undertaking of monitoring procedures, including data management. The verification team confirms the efficiency of the existing management and operational systems and considers them appropriate for reliable project monitoring.

The identified areas of concern as to data management, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 05, CL 03, CL 04).

3.7 Verification regarding programmes of activities (102-110)

Not applicable.

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4 VERIFICATION OPINION

Bureau Veritas Certification has performed the 1st periodic verification of the "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" Project for the period from January 1, 2008 to October 31, 2012, which applies JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the monitoring report against the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

PJSC "Dniprogaz" management is responsible for the preparation of data which serve as the basis for estimation of GHG emission reductions. CEP CARBON EMISSIONS PARTNERS S.A. provides PJSC "Dniprogaz" with consultative support in the issues relating to organization of data collection and is responsible for developing the monitoring report based on the Project Monitoring Plan included in the final PDD version 02.

Bureau Veritas Certification verified the Project Monitoring Report version 02 for the reporting period of 01/01/2008 - 31/10/2012 as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

Emission reductions achieved by the project for the period from 01/01/2008 to 31/10/2012 do not differ significantly from the amount predicted for the same period in the determined PDD. Emission reductions predicted in the determined PDD version 02 and actual emission reductions stated in the MR version 02 are provided in Table 3 of this report.

Table 3 Emission reductions predicted in the determined PDD version 02 and actual emission reductions stated in the MR version 02

Period	Estimated GH reductions sta determined PDD,	ed in	ission the	Actual reductions Monitoring		emis in O _{2e}	sion the
2008	465 188		459 232				
2009	581 485		520 558				



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2010	581 485	557 712
2011	581 485	574 185
01/01/2012- 31/10/2012	484 321	494 849
Total	2 693 964	2 606 536

The difference is explained by the fact that at the time of PDD writing it was impossible to obtain accurate data necessary for calculation of GHG emission reductions for the current monitoring period. To calculate the GHG emission reductions for the current monitoring period all the necessary information was given and this provided an opportunity to accurately determine the amount of emissions in the baseline and project scenarios. Amount of emission reductions for the period 01/01/2012-31/10/2012 provided in the determined PDD was calculated by dividing the total annual amount of emission reductions stated in the PDD by 12 (12 months) and multiplying by 10 (10 months).

Bureau Veritas Certification can confirm that the GHG emission reduction is accurately calculated and is free of material errors, omissions, or misstatements. Our opinion relates to the project's GHG emissions and resulting GHG emissions reductions reported and related to the approved project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm, with a reasonable level of assurance, the following statement:

Reporting period: From 01/01/2008 to 31/10/2012

In the period from 01/01/2008 to 31/12/2008

Baseline emissions : 599 341 tonnes of CO₂ equivalent. Project emissions : 140 109 tonnes of CO₂ equivalent. Emission Reductions : 459 232 tonnes of CO₂ equivalent.

In the period from 01/01/2009 to 31/12/2009

Baseline emissions : 669 861 tonnes of CO₂ equivalent. Project emissions : 149 303 tonnes of CO₂ equivalent. Emission Reductions : 520 558 tonnes of CO₂ equivalent.

In the period from 01/01/2010 to 31/12/2010

Baseline emissions : 697 821 tonnes of CO₂ equivalent. Project emissions : 140 109 tonnes of CO₂ equivalent. Emission Reductions : 557 712 tonnes of CO₂ equivalent.

In the period from 01/01/2011 to 31/12/2011

Baseline emissions : 714 314 tonnes of CO₂ equivalent. Project emissions : 140 129 tonnes of CO₂ equivalent. Emission Reductions : 574 185 tonnes of CO₂ equivalent.



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In the period from 01/01/2012 to 31/10/2012

Baseline emissions : 611 536 tonnes of CO₂ equivalent. Project emissions : 116 687 tonnes of CO₂ equivalent. Emission Reductions : 494 849 tonnes of CO₂ equivalent.

Total in the period from 01/01/2008 to 31/10/2012

Baseline emissions : 3 292 873 tonnes of CO₂ equivalent.
Project emissions : 686 337 tonnes of CO₂ equivalent.
Emission Reductions : 2 606 536 tonnes of CO₂ equivalent.



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5 REFERENCES

Category 1 Documents:

Documents provided by the project participants that relate directly to the GHG components of the project.

/1/	The PDD of the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz", version 02, as of 10/10/2012
/2/	Monitoring Report of the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" for the period of 01/01/2008-31/10/2012, version 01, as of 02/11/2012
/3/	Monitoring Report of the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" for the period of 01/01/2008-31/10/2012, version 02, as of 06/11/2012
/4/	Annex A. Supporting document1. Calculation of greenhouse gas emission reductions generated by the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" in the period from January 1, 2008 to October 31, 2012
/5/	Determination Report of the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz", issued by Bureau Veritas Certification Holding SAS, No. UKRAINE-det/0685/2012 dated 15/10/2012
/6/	Letter of Approval No. 3258/23/7 issued by the State Environmental Investment Agency of Ukraine as of 31/10/2012
/7/	Letter of Approval No. J294-0485 issued by the Federal Office for the Environment (FOEN) of Switzerland dated 24/10/2012
/8/	"Methodology for calculation of greenhouse gas emission reductions achieved by above-standard natural gas leak repair at gas distribution networks" that was developed by the Institute of Gas of the National Academy of Sciences of Ukraine (registration number UkrNTI 0112U00A816 dated 2012)



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Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

leaks on the gas equipment of the gas distribution points and on the ga armature, flanged, threaded joints of the gas distribution networks within the boundary of the Joint Implementation project "dated 10/09/2012 /2/ Registry of gas distribution points and gas fittings of the Join Implementation Project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threade joints of the gas distribution pipelines of PJSC "Dniprogaz" (Form 5) /3/ Log of repairs and replacement of GDP (CGDP) gas equipment and ga fittings at PJSC "Dniprogaz" pipelines (Form 3) /4/ Certificate of Completion approved by the State Acceptance Commitedated 09/03/2012 (CGDP-2 with RD-50M) /5/ Certificate of Completion approved by the State Acceptance Commitedated 09/03/2012 (RDUK-50 pressure regulator) /6/ Certificate of Completion approved by the State Acceptance Commitedated 19/08/2012 (CGDP with RD-50M) /7/ Certificate of Operational Activity of Public Joint Stock Company "Dniprogaz for 2008 /8/ Certificate of Operational Activity of Public Joint Stock Company "Dniprogaz for 2009 /9/ Certificate of Operational Activity of Public Joint Stock Company "Dniprogaz for 2010 /10/ Certificate of Operational Activity of Public Joint Stock Company "Dniprogaz for 2011 /11/ Metering Device Calibration Certificate No.80649/4 (EX-TEC-SRS5 ga analyzer), valid till 16/05/2012 /12/ Metering Device Calibration Certificate No.84138/8 (EX-TEC-SRS5 ga analyzer), valid till 12/03/2012 /13/ Metering Device Calibration Certificate No.8404/4 (Variotec-8), valid til 12/03/2011 /14/ Metering Device Calibration Certificate No.80404/4 (Variotec-8), valid til 12/03/2011 /15/ Metering Device Calibration Certificate No.804100/18 (Variotec-8), valid til 12/03/2011 /16/ Metering Device Calibration Certificate No.82012/3 (Variotec-8), valid til 12/03/2011		ed in the design of other reference documents.
Registry of gas distribution points and gas fittings of the Joir Implementation Project "Reduction of methane leaks on the gas equipmer of the gas distribution points and on the gas armature, flanged, threade joints of the gas distribution pipelines of PJSC "Dniprogaz" (Form 5)	/1/	Decree No.421 "On creation of the Working Team on reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution networks within the
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Assume Log of repairs and replacement of GDP (CGDP) gas equipment and gan fittings at PJSC "Dniprogaz" pipelines (Form 3)	/2/	Implementation Project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded
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29/03/2012 /18/ Metering Device Calibration Certificate No.82012/3 (Variotec-6), valid ti 12/03/2011	/16/	Metering Device Calibration Certificate No.80404/4 (Variotec-8), valid till 06/04/2013
12/03/2011	/17/	
/19/ Metering Device Calibration Certificate No.80404/1 (Variotec-6), valid ti	/18/	Metering Device Calibration Certificate No.82012/3 (Variotec-6), valid till 12/03/2011
06/03/2013	/19/	Metering Device Calibration Certificate No.80404/1 (Variotec-6), valid till 06/03/2013



/20/	Metering Device Calibration Certificate No.84100/12 (Variotec-6), valid till 29/03/2012
/21/	Metering Device Calibration Certificate No.80649/4 (EX-TEC-SRS5 gas analyzer), valid till 16/05/2013
/22/	Metering Device Calibration Certificate No.84138/8 (EX-TEC-SRS5 gas analyzer), valid till 21/04/2012
/23/	Metering Device Calibration Certificate No.82012/15 (EX-TEC-SRS5 gas analyzer), valid till 12/03/2011
/24/	Ready for Commissioning Certificate (cabinet-type unit with pressure regulator RD-50M (ShP-2) dated 12/03/2011
/25/	Ready for Commissioning Certificate (GRPSh-2F-2FE25S-Y1 with two pressure regulators RD FE25S) dated 19/12/2010
/26/	Ready for Commissioning Certificate (CGDP with pressure regulator RBI 2012) dated 10/12/2009
/27/	Certificate of Acceptance of gas equipment for complex test (pre- commissioning) dated December 2009
/28/	Certificate of Acceptance of gas equipment for complex test (precommissioning) dated 22/09/2009
/29/	Certificate of Acceptance of gas equipment for complex test (precommissioning) dated 10/12/2009
/30/	Certificate of Completion approved by the Acceptance Commitee (gas fittings: faucets, valves, alarms, meters, pressure regulators) dated 20/04/2009
/31/	Certificate of Completion approved by the Acceptance Commitee (gas fittings: faucets, valves, alarms, meters, pressure regulators) dated 18/03/2008
/32/	Certificate of Completion approved by the Acceptance Commitee (gas fittings: faucets, valves, alarms, meters, pressure regulators) dated 03/11/2008
/33/	Certificate of Completion approved by the Acceptance Commitee (gas fittings: faucets, valves, alarms, meters, pressure regulators) dated 15/01/2008
/34/	Photo of replaced equipment
/35/	Photo of metering equipment
/36/	Photo of metering works being conducted



VERIFICATION REPORT

Persons interviewed:

List persons interviewed during the verification or persons that contributed with other information that are not included in the documents listed above.

	Name	Organisation	Title
/1/	M. Melets	PJSC "Dniprogaz"	Chief Metrologist of the Metrological Centre
/2/	Y. Haltsev	PJSC "Dniprogaz"	Chief Engineer of PTD
/3/	M.Smirnov	PJSC "Dniprogaz"	Chief Engineer of the Metrological Centre
/4/	S. Borychiv	PJSC "Dniprogaz"	Senior Master of CPE
/5/	S. Marchenko	PJSC "Dniprogaz"	Engineer of the Metrological Centre
/6/	D. Prokhach	"CEP" LLC	CEP CARBON EMISSIONS PARTNERS S.A. Consultant



VERIFICATION REPORT

APPENDIX A: COMPANY PROJECT VERIFICATION PROTOCOL BUREAU VERITAS CERTIFICATION HOLDING SAS

JI PROJECT VERIFICATION PROTOCOL

Check list for verification, according to the JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Project app	provals by Parties involved			
90	Has the NFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest?	The project has been approved by both parties. The Letters of Approval were presented to the verification team. CAR 01. Please, provide the information about determination of the project.	CAR 01	OK
91	Are all the written project approvals by Parties involved unconditional?	Yes, all the written project approvals by Parties involved are unconditional.	OK	OK
Project imp	plementation			
92	Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	Yes, the project has been implemented in accordance with the PDD, which is listed on the UNFCCC JI website. According to the PDD version 02 the project boundary includes methane leak spots at gas distribution point (cabinet-type gas distribution point) gas equipment (pressure regulators, sleeves, filters etc.) and gas fittings (cranes, gate valves etc.) located at PJSC "Dniprogaz" gas distribution networks. The project boundary includes gas equipment	CAR 02	OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		of GDPs (CGDPs) (1676 units) and gas fittings (2974units). During the current reporting monitoring period gas equipment of 671 GDPs (CGDPs) and 1190 gas fitting units were repaired (replaced) in the framework of the project. Project activities of the current monitoring period (January 1, 2008 – October 31, 2012) also involve Purposeful Examination and Technical Maintenance (PETM) of all GDP (CGDP) gas equipment and gas fittings that were repaired (replaced) in addition to scheduled repairs in the whole JI project life. According to the Monitoring Plan provided in the PDD Version 02, current repairs of gas equipment are carried out once a year, and maintenance is performed once per half-year. CAR 02. The name of Annex is specified incorrectly in		
93	What is the status of operation of the project during the monitoring period?	Section A.6. of MR. The Project has been operational for the whole monitoring period, which is 01/01/2008-31/10/2012. CAR 03. Monitoring period is specified incorrectly in Section A.3. of MR.	CAR 03	OK
Compliance 94	the monitoring plan included in the PDD	Yes, the monitoring was carried out in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website. CL 01. Please provide explanation of the difference		OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		between emission reductions of GHG in MR and determined PDD in Section A.7.		
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate?	For calculating the emission reductions key factors, such as sequence number of GDN component, Global Warming Potential of methane, number of activity (replacement/repair) at GDN component after the presence of APLNG was determined at such component, average mass fraction of methane in the natural gas, natural gas leak factor from GDN component in CLS, natural gas leak factor that corresponds to APLNG for GDN component, time of operation of GDN component under pressure from the beginning of monitoring period "y" to implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component, time of operation of GDN component under pressure from the moment of implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component to the end of the monitoring period "y", experience in implementing activities provided by the project, current practice that exists in this field in Ukraine, financial costs and background, legislation, influencing the baseline emissions and the activity level of the project and the emissions as well as risks associated with the project were taken into account, as appropriate. CAR 04. The amount of emission reductions in 2008	CAR 04	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		is not the difference between the baseline and project GHG emissions. Correct this discrepancy.		
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	Yes, data sources used for calculating emission reductions or enhancements of net removals are clearly identified, reliable and transparent CL 02 . Please provide a reference to Supporting document 1 in Table 4 of MR.	CL 02	OK
95 (c)	emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing	Yes, emission factors, including default emission factors, that are used for calculating the emission reductions or enhancements of net removals, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.		OK
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?	conservative assumptions and the most plausible	OK	OK
	to JI SSC projects only			
96	Is the relevant threshold to be classified as JI SSC project not exceeded during the monitoring period on an annual average basis? If the threshold is exceeded, is the maximum emission reduction level estimated in the PDD for the JI SSC project or the bundle for the monitoring period determined?	N/a	N/a	N/a



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Applicable	to bundled JI SSC projects only			
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-SSCBUNDLE?	N/a	N/a	N/a
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	N/a	N/a	N/a
98	If the monitoring is based on a monitoring plan that provides for overlapping monitoring periods, are the monitoring periods per component of the project clearly specified in the monitoring report? Do the monitoring periods not overlap with those for which verifications were already deemed final in the past?	N/a	N/a	N/a
Revision o	f monitoring plan			
Applicable	only if monitoring plan is revised by projec	t participant		
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	N/a	N/a	N/a
99 (b) Data mana	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?	N/a	N/a	N/a



				VEHITAS
DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	The implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures. CL 03. Please, give the decree on creation of the Working Team to verification teem.	CL 03	OK
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	Yes, the function of the monitoring equipment, including its calibration status is in order. CL 04. Please, give a documentation about procedure of calibration of metering device.	CL 04	OK
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	Yes, the evidence and records used for the monitoring are maintained in a traceable manner.	OK	OK
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	The data collection and management system for the project is in accordance with the monitoring plan. The Verification Team confirms the effectiveness of existing management system and operating system and considers them suitable for reliable monitoring of the project. CAR 05. Please, check the numbering of references in the MR.	CAR 05	ОК
Verification	n regarding programs of activities (additiona	al elements for assessment)		
102	Is any JPA that has not been added to the JI PoA not verified?	N/a	N/a	N/a
103	Is the verification based on the monitoring reports of all JPAs to be verified?	N/a	N/a	N/a
103	Does the verification ensure the accuracy and conservativeness of the emission reductions or enhancements of removals	N/a	N/a	N/a



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	generated by each JPA?			
104	Does the monitoring period not overlap with previous monitoring periods?	N/a	N/a	N/a
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	N/a	N/a	N/a
Applicable	to sample-based approach only			
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI Project. Such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as: - The types of JPAs; - The complexity of the applicable technologies and/or measures used; - The geographical location of each JPA; - The amounts of expected emission reductions of the JPAs being verified; - The number of JPAs for which emission reductions are being verified;	N/a	N/a	N/a



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	 The length of monitoring periods of the JPAs being verified; and The samples selected for prior verifications, if any? 			
107	Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?	N/a	N/a	N/a
108	Has the AIE made site inspections of at least the square root of the number of total JPAs, rounded to the upper whole number? If the AIE makes no site inspections or fewer site inspections than the square root of the number of total JPAs, rounded to the upper whole number, then does the AIE provide a reasonable explanation and justification?		N/a	N/a
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	N/a	N/a	N/a
110	If the AIE learns of a fraudulently included JPA, a fraudulently monitored JPA or an inflated number of emission reductions claimed in a JI PoA, has the AIE informed the JISC of the fraud in writing?	N/a	N/a	N/a



VERIFICATION REPORT

TABLE 2 RESOLUTION OF CLARIFICATION AND CORRECTIVE ACTION REQUESTS

Draft report clarifications and corrective	Ref. to	Summary of project participant	Verification team conclusion
action requests by validation team	checklist	response	Verification team conclusion
action requests by validation team	question in	response	
	table 1		
CAR 01. Please, provide the information about determination of the project.	90	JI Project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" was determined by the Bureau Veritas Certification, determination report No. UKRAINE-DET/0685/2012 from	The issue is closed as relevant information was provided.
CAR 02. The name of Annex is specified incorrectly in Section A.6. of MR.	92	Annex A. Supporting document1. Calculation of greenhouse gas emission reductions generated by the JI project "Reduction of methane leaks on the gas equipment of the gas distribution points and on the gas armature, flanged, threaded joints of the gas distribution pipelines of PJSC "Dniprogaz" in the period from January 1, 2008 to October 31, 2012	issue is closed.
CAR 03. Monitoring period is specified incorrectly in Section A.3. of MR.	93	Monitoring period is from January 1, 2008 to October 31, 2012.	The issue is closed as relevant corrections were made.
CAR 04 . The amount of emission reductions in 2008 is not the difference between the baseline and project GHG emissions. Correct this discrepancy.	95 (a)	This discrepancy was caused by rounding in Annex A. Relevant corrections were made.	The issue is closed as relevant corrections were made.



CAR 05 . Please, check the numbering of references in the MR.	101 (d)	The numbering is checked. Relevant corrections were made.	The issue is closed as relevant corrections were made.
CL 01. Please provide explanation of the difference between emission reductions of GHG in MR and determined PDD in Section A.7.	94	The reason is that estimate emission reduction which were given in the determined PDD version 02 are preliminary and based on theoretical calculations, the effect of implementation was calculated from the first day of the year, and in the monitoring report in the calculations were used the actual dates of repairs and their actual number.	Relevant explanation is provided, the issue is closed.
CL 02 . Please provide a reference to Supporting document 1 in Table 4 of MR.	95 (b)	Relevant reference is provided.	The issue is closed as relevant reference was provided.
CL 03 . Please, give the decree on creation of the Working Team to verification teem.	101 (a)	Decree No.421 dated 10/09/2012 is given to verification tem.	The issue is closed as relevant documentation was given.
CL 04. Please, give a documentation about procedure of calibration of metering device.	101 (b)	Relevant certifications were given to verification tem.	The issue is closed as relevant documentation was given.